

# Material Safety Data Sheet

Conforms to ANSI Z400.5-2004 Standard (United States, Canada)

## 1. Product and company identification

**Produce Name:** California Sealant  
**Material uses:** Aromatic & aliphatic hydrocarbon adhesive  
**Supplier/Manufacturer:** Polyguard Products  
3801 South Interstate 45  
Ennis, TX 75119  
Tel (800) 541-4994  
**In case of emergency:** CHEMTREC, US: +1-800-424-9300 International: +1-703-527-3887

## 2. Hazards identification

**Physical state:** Red liquid  
**Odor:** Hydrocarbon (strong)  
**Signal word:** **DANGER!**  
**OSHA/HCS status:** This material is considered hazardous by the OSHA Hazardous Communication Standard. (29CFR 1910.1200)  
**Emergency Overview:** EXTREMELY FLAMMABLE LIQUID AND VAPOR. FLAMMABLE, VAPOR MAY CAUSE FLASH FIRE, CAUSE EYE AND SKIN IRRITATION.MAY BE HARMFUL IF SWALLOWED.CONTAINS MATERIALS THAT CAN CAUSE TARGET ORGAN DAMAGE.

Keep away from heat, sparks and flame. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

### Potential acute health effects

**Inhalation:** Slightly irritating to respiratory system..  
**Ingestion:** May be harmful if swallowed  
**Skin:** Irritating to the skin  
**Eyes:** Irritating to the eyes

### Potential chronic health effects

**Chronic effects:** Contains materials that can cause target organ damage  
**Carcinogenicity:** No known significant effects or critical hazards.  
**Mutagenicity:** No known significant effects or critical hazards.  
**Teratogenicity:** No known significant effects or critical hazards  
**Developmental effects:** No known significant effects or critical hazards  
**Fertility effects:** No known significant effects or critical hazards  
**Target organs:** Contains material which causes damage to the following organs: Kidneys, liver, peripheral nervous system, upper respiratory tract, skin, central nervous system (CNS), eyes, lens, and cornea.

### Over-exposure signs/symptoms

**Inhalation:** Adverse symptoms may include the following: Headaches  
**Ingestion:** Adverse symptoms may include the following: Nausea, vomiting.  
**Skin:** Adverse symptoms may include the following: Irritation, redness  
**Eyes:** Adverse symptoms may include the following: pain and irritation, redness, watering.

## 2. Hazards identification

Medical conditions aggravated by over-exposure:

Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information ( section 11)

## 3. Composition/information on ingredients

United States			
Name		CAS number	%
Toluene		108-88-3	30-60
n-Hexane		110-54-3	30-60

Canada			
Name		CAS number	%
Toluene		108-88-3	30-60
n-Hexane		110-54-3	30-60

There are no additional ingredients present which within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. First aid measures

<b>Eye contact:</b>	Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention.
<b>Skin contact:</b>	In case of contact, immediately flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
<b>Inhalation:</b>	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
<b>Ingestion:</b>	Wash out mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
<b>Protection of first-aiders:</b>	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth to mouth resuscitation.
<b>Notes to physician:</b>	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## 5. Fire-fighting measures

<b>Flammability of the product:</b>	Extremely flammable material. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard
<b>Extinguishing media</b>	
<b>Suitable:</b>	Use dry chemical, CO2, water spray (fog) or foam.
<b>Not suitable:</b>	Do not use water jet
<b>Hazardous thermal decomposition products:</b>	Decomposition products may include the following materials: Carbon Dioxide, Carbon Monoxide, Low MW hydrocarbons.
<b>Special protective equipment:</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-piece face mask operating in a positive pressure mode.

## 6. Accidental release measures

### Personal precautions:

No actions shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personal from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in a hazardous area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

### Environmental Precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Method for clean up

#### Small spill:

Stop leak if without risk. Move containers from spilled area. Use spark-proof tools and explosion proof equipment. Dispose of via a licensed waste disposal contractor.

#### Large spill:

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 7. Handling and storage

### Handling:

Put on appropriate personal protective equipment (see section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilation, lighting, and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. Do not pressurize, cut, weld braze, solder, drill, grind or expose containers to heat or sources of ignition.

### Storage:

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible material (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

	<b>United States</b>
<b>Product name</b>	<b>Exposure limits</b>
<b>Toluene</b>	<b>NIOSH REL ( United States, 6/2009)</b> STEL: 560 mg/m <sup>3</sup> 15 minute(s) STEL: 150 ppm 15 minute(s) TWA: 375 mg/m <sup>3</sup> 10 hour(s) TWA: 100 ppm 10 hour(s) <b>OSHA PEL ( United States, 11/2006)</b> AMP: 500 ppm 10 minute(s) CEIL: 300 ppm TWA: 200 ppm 8 hour(s) <b>ACGIH TLV ( United States, 2/2010)</b> TWA: 20 ppm 8 hour(s)
<b>n- Hexane</b>	<b>ACGIH TLV(United States, 2/2010) absorbed thru skin</b> TWA: 50 ppm 8 hour(s) <b>NIOSH REL ( United States, 6/2009)</b> TWA: 180 mg/m <sup>3</sup> 10 hour(s) TWA: 50 ppm 10 hour(s) <b>OSHA PEL ( United States, 6/2010)</b> TWA: 1800 mg/m <sup>3</sup> 8 hour(s) TWA: 500 ppm 8 hour(s)

	<b>Canada</b>
<b>Product name</b>	<b>Exposure limits</b>
<b>Toluene</b>	<b>CA Alberta Provincial (Canada, 4/2009) skin</b> TWA: 50 ppm 8 hour(s) TWA: 188 mg/m <sup>3</sup> 8 hour(s) <b>CA British Columbia Provincial (Canada, 9/2010).</b> TWA: 20 ppm 8 hour(s) <b>CA Ontario Provincial (Canada, 7/2010).</b> TWA:20 ppm 8 hour(s) <b>CA Quebec Provincial (Canada, 6/2008). Skin</b> TWA: 50 ppm 8 hour(s). TWA: 188 mg/m <sup>3</sup> 8 hour(s).
<b>n-Hexane</b>	<b>CA Alberta Provincial (Canada, 4/2009). Skin</b> TWA: 50 ppm 8 hour(s) TWA: 176 mg/m <sup>3</sup> 8 hour(s) <b>CA British Columbia Provincial (Canada, 9/2010). Skin</b> TWA: 20 ppm 8 hour(s) <b>CA Ontario Provincial (Canada, 7/2010).</b> TWA: 50 ppm 8 hour(s) <b>CA Quebec Provincial (Canada, 6/2008). Skin</b> TWA: 50 ppm 8 hour(s). TWA: 176 mg/m <sup>3</sup> 8 hour(s).

Consult local authorities for acceptable exposure limits.

## 8. Exposure controls/personal protection

<b>Recommended monitoring procedure:</b>	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
<b>Engineering measures:</b>	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
<b>Hygiene measures:</b>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
<b>Personal protection</b>	
<b>Eyes</b>	Safety glasses
<b>Skin</b>	Skin protection needs to be based on the task being performed. Minimum requirements are long sleeves and long pants.
<b>Respiratory</b>	Use a properly fitted, air purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respiratory selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respiratory.
<b>Hands</b>	Chemical Resistant gloves.
<b>Environmental exposure controls</b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

<b>Physical state:</b>	Liquid
<b>Flash point</b>	Closed cup: -19.4 C (-2.9 F) [Tagliabue]
<b>Flammable limits</b>	Lower 1.2 % and Upper 7.5 %
<b>Color</b>	Orange
<b>Odor</b>	Hydrocarbon ( strong)
<b>Boiling /Condensation Point</b>	67 C (152.6 F)
<b>Specific Gravity:</b>	0.9
<b>Vapor Pressure:</b>	20.3 kPa ( 152 mmHg)
<b>Vapor Density</b>	3.5 [Air=1]
<b>Evaporation rate</b>	4.5 ( Ether ( anhydrous)=1)
<b>VOC:</b>	527 g/l
<b>Solubility</b>	Partially soluble in the following materials: cold water and hot water.

## 10. Stability and reactivity

<b>Stability:</b>	The product is stable
<b>Hazardous polymerization:</b>	Under normal conditions of storage and use, hazardous polymerization will not occur.
<b>Conditions to avoid:</b>	Avoid all possible sources of ignition (sparks or flame). Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
<b>Materials to avoid:</b>	Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis
<b>Hazardous decomposition:</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological information

### Acute Toxicity

Product/ingredient name	Species	Dose	Result	Exposure
Toluene	Rat	49 g/m <sup>3</sup>	LC50 Inhalation	4 hrs
	Rat	636 mg/kg	LD50 oral	-
n-Hexane	Rat	48000 ppm	LC50 Inhalation-gas	4 hrs
	Rat	15840 mg/kg	LD 50 Oral	-

### Chronic Toxicity

There is no data available.

### Irritation/Corrosive

**Skin:**  
**Eyes:** Irritating to skin.  
Irritating to eyes.

### Carcinogenicity classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Toluene	A4	3	-	-	-	-

## 12. Ecological information

**Environmental effects:** No known significant or critical hazards.

### Aquatic ecotoxicity:

Product/ingredient name	Results	Species	Exposures
Toluene	Acute EC50 > 433 ppm Marine water	Algae-Skeletonema Costatum	96 hours
	Acute EC50 12500 ug/L	Algae-Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 ug/L	Crustaceans- Gammarus Pseudolimnaeus- Adult -9mm-0.017 g.	48 hours
n-Hexane	Acute EC50 6000 ug/L Fresh water	Daphnia- Daphnia magna- Juvenile ( Fledging, Hatchling, Weanling)	48 hours
	Acute LC50 5500 ug/L Fresh water	Fish- Oncorhynchus kisutch- Fry-1g	96 hours
	Chronic NOEC 1000 ug/L Fresh water	Daphnia- Daphnia magna- <= 24 hrs	21 days
	Acute LC50 2500 to 2980 ug /L	Fish-Pimephales promelas-31 days 20.4 mm-0.123 g	96 hours

## 13. Disposal considerations

### Waste disposal :

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to section 7: HANDLING AND STORAGE and section 8: EXPOSURE CONTROL/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. Transportation information

AERG: 127

Regulatory Information	Un Number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN 1139	Coating Solution	3	II	Flammable liquid	-
TDG Classification	UN 1139	Coating Solution	3	II	Flammable liquid	-
IMDG Class	UN 1139	Coating Solution Marine pollutant (n-Hexane)	3	II	Flammable liquid Marine pollutant	-
IATA-DGR Class	UN 1139	Coating Solution	3	II	Flammable liquid Marine pollutant	-

## 15. Regulatory information

### United States

**HCS Classification:** Flammable liquid  
Irritating material  
Target organ effect

### U.S. Federal regulations:

United States Inventory (TSCA 8b): All components are listed or exempted.  
**SARA 302/304/311/312 extremely hazardous substance:** No products were found  
**SARA 302/304 Emergency Planning and Notification:** No products were found.  
**SARA 302/304/311/312 hazardous chemicals:** Toluene, n-hexane  
**SARA 311/312 MSDS Distribution- Chemical inventory –hazard identification**  
**Toluene:** Fire hazard, immediate (acute) health hazard, delayed (chronic) health hazard;  
**n-Hexane:** immediate (acute) health hazard, delayed (chronic) health hazard.  
**Clean Water Act (CWA) 307: Toluene**  
**Clean Water Act (CWA) 311: Toluene**  
**Clean Air Act (CAA) 112(b) Hazardous Air Pollutants ( HAP's):** Listed  
**Clean Air Act (CAA) section 602 Class I Substances:** Not listed  
**Clean Air Act (CAA) section 602 Class II Substances:** Not listed  
**DEA List I Chemicals (Precursor chemicals):** Not listed  
**DEA List II Chemicals (Essential chemicals):** Listed

### SARA 313

#### Form R- Reporting Requirements

Product name	CAS number	Concentration
Toluene	108-88-3	30 – 60 %
n-Hexane	110-54-3	30 – 60 %

#### Supplier notification

Toluene	108-88-3	30 – 60 %
n-Hexane	110-54-3	30 – 60 %

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

### State regulations:

**Massachusetts Substances:** The following components are listed: Toluene, n-Hexane.  
**New Jersey:** The following components are listed: Toluene, n-Hexane.  
**New York :**The following components are listed: Toluene, n- Hexane  
**Pennsylvania:** The following components are listed: Toluene, n- Hexane.

## 15. Regulatory information

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

<b>Ingredient</b>	<b>Cancer</b>	<b>Reproductive</b>	<b>No significant risk level</b>	<b>Maximum acceptable dosage level</b>
Toluene	No	Yes	No	7000 µg/day ( ingestion) 13000 µg/day ( inhalation)

### Canada

**WHMIS (Canada):**  
Class B-2: Flammable liquid  
Class D-2A: Material causing other toxic effects ( Very toxic)  
Class D-2B: Material causing other toxic effects ( toxic)

### Canadian lists

**CEPA Toxic substance:** None of the components are listed  
**Canadian NPRI:** The following components are listed: Toluene, n-Hexane

### Canada Inventory:

All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

## 16. Other information

### Label Requirements

EXTREMELY FLAMMABLE LIQUID AND VAPOR. FLAMMABLE, VAPOR MAY CAUSE FLASH FIRE.CAUSES EYE AND SKIN IRRITATION. MAYBE HARMFUL IF SWALLOWED.CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

### Hazardous Material

#### Information System (USA)

<b>Health -</b>	<b>*2</b>	<b>HAZARD RATING</b>
<b>Fire Hazard-</b>	<b>3</b>	4- Extreme
<b>Physical Hazard</b>	<b>0</b>	3-Serious
<b>Personal Protection</b>		2- Moderate
		1- Slight
		0- Minimal
		See section 8 for more detailed information on personal protection.

The customer is responsible for determining the PPE code for this material.

### National Fire Protection

#### Association (USA)

<b>Health</b>	<b>2</b>
<b>Flammability</b>	<b>3</b>
<b>Instability</b>	<b>0</b>
<b>Special</b>	

### Date of Issue:

2/27/12

### Version:

2

Notice to reader: **To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.**